

Kentucky HIV/AIDS Quarterly Report Data Sources and Limitations

The HIV/AIDS Quarterly Report contains cases diagnosed and reported to the Kentucky Department for Public Health, HIV/AIDS Program through March 31, 1999.

According to state regulation 902 KAR 2:020, Section 7, physicians, hospitals, laboratories and counseling and testing sites are required to report HIV and AIDS cases to the Kentucky Department for Public Health within five days of diagnosis. AIDS cases are reported by name, while HIV cases are reported by initials. HIV tests can be either anonymous or confidential; however, only those confidential HIV positive cases are reported to the Kentucky Department for Public Health.

When HIV and AIDS cases are reported, they are entered into separate databases. For example, the AIDS database contains all AIDS cases reported both living and deceased since 1982. The HIV data set, however, contains only those cases living with HIV who have not developed AIDS. The HIV database has been maintained since 1990.

This HIV database is limited because it only contains those cases currently living with HIV and can not be used to derive a proper rate. Also, without HIV name reporting we can never be completely sure if duplicates exist in the database.

Another limitation to the HIV data set is the high number for which the mode of exposure or risk factor is undetermined. As of March 31, 1999, 33% of HIV cases are listed with an undetermined mode of exposure.

Cumulative Kentucky HIV/AIDS Cases as of 3/31/99	
<u>Type of Case</u>	<u>Number of Cases</u>
AIDS cases both living and deceased	2893
Cases living with AIDS	1336
Cases living with HIV who have not developed AIDS	2487

AIDS IN KENTUCKY

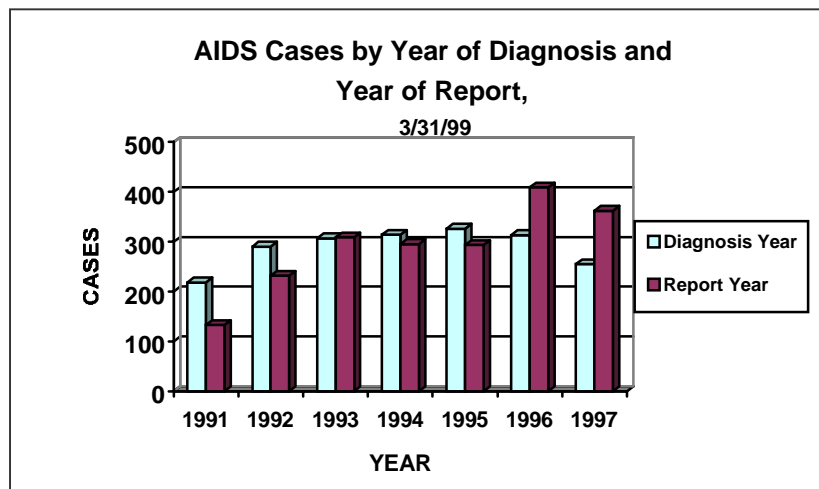
March 31, 1999

AIDS CASES BY YEAR OF DIAGNOSIS												
Characteristics	1982-86	1987-91	1992	1993	1994	1995	1996	1997	1998	1999	Total	% ⁽¹⁾
<u>GENDER</u>												
Male	90	703	259	279	264	288	264	214	162	15	2538	88%
Female	6	74	31	28	50	38	49	41	35	3	355	12%
TOTAL	96	777	290	307	314	326	313	255	197	18	2893	100%
<u>AGE AT DIAGNOSIS</u>												
<13	0	12	0	1	1	3	5	0	1	0	23	1%
13-19	2	10	1	1	2	4	1	1	0	1	23	1%
20-29	24	209	56	56	65	50	43	36	27	3	569	20%
30-39	45	351	145	149	146	165	158	122	92	8	1381	48%
40-49	15	121	69	82	79	77	81	78	58	6	666	23%
>49	10	74	19	18	21	27	25	18	19	0	231	8%
TOTAL	96	777	290	307	314	326	313	255	197	18	2893	100%
<u>RACE</u>												
White	81	606	218	230	206	227	202	152	121	12	2055	71%
African-American	14	162	68	76	100	93	108	90	68	6	785	27%
Other	1	9	4	1	8	6	3	13	8	0	53	2%
TOTAL	96	777	290	307	314	326	313	255	197	18	2893	100%
<u>RISK</u>												
MSM ⁽²⁾	64	519	188	191	173	190	159	133	94	11	1722	60%
IDU ⁽³⁾	8	72	38	38	52	51	50	42	26	0	377	13%
MSM AND IDU	9	54	19	20	16	21	12	14	12	0	177	6%
Hemophiliac	6	37	13	7	6	7	2	1	0	0	79	3%
Heterosexual ⁽⁴⁾	3	45	25	39	51	35	61	29	29	4	321	11%
Transfusion	3	25	2	3	5	2	2	0	0	0	42	1%
Perinatal	0	7	0	1	1	3	5	0	1	0	18	1%
Undetermined ⁽⁵⁾	3	18	5	8	10	17	22	36	35	3	157	5%
TOTAL	96	777	290	307	314	326	313	255	197	18	2893	100%

(1) Percentages may not total 100 due to rounding. (2) MSM = Men having Sex with Men (3) IDU = Injecting Drug User

(4) "Heterosexual" Includes persons who have had heterosexual contact with a person with HIV or at risk for HIV.

(5) "Undetermined" refers to persons whose mode of exposure to HIV is unknown. This includes persons who are under investigation, dead, lost to follow-up, refused interview, and persons whose mode of exposure remains undetermined after investigation.



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CUMULATIVE AIDS CASES BY RISK, RACE, AND GENDER, 3/31/99							
RISK		White		African Am.		Other	
		No.	%	No.	%	No.	%
M A L E	MSM	1413	76%	291	47%	18	42%
	IDU	117	6%	144	23%	12	28%
	MSM AND IDU	112	6%	61	10%	4	9%
	Hemophiliac	69	4%	9	1%	0	0%
	Heterosexual	84	4%	56	9%	5	12%
	Transfusion/Transplant	24	1%	4	1%	0	0%
	Perinatal	3	0%	3	0%	0	0%
	Undetermined	49	3%	56	9%	4	9%
TOTAL		1871	100%	624	100%	43	100%
F E M A L E	IDU	46	25%	53	33%	5	50%
	Hemophiliac	1	1%	0	0%	0	0%
	Heterosexual	102	55%	69	43%	5	50%
	Transfusion/Transplant	10	5%	4	2%	0	0%
	Perinatal	7	4%	5	3%	0	0%
	Undetermined	18	10%	30	19%	0	0%
TOTAL		184	100%	161	100%	10	100%

KENTUCKY AIDS CASES, LIVING AND DECEASED, AS OF 3/31/99				
Diagnosis Year	Total Cases	Living	Deceased	Case Fatality Rate ⁽¹⁾
1982	3	0	3	100%
1983	6	0	6	100%
1984	15	1	14	93%
1985	32	1	31	97%
1986	40	1	39	98%
1987	73	6	67	92%
1988	126	6	120	95%
1989	169	20	149	88%
1990	191	25	166	87%
1991	218	41	177	81%
1992	290	78	212	73%
1993	307	113	194	63%
1994	314	165	149	47%
1995	326	226	100	31%
1996	313	247	66	21%
1997	255	214	41	16%
1998	197	176	21	11%
1999	18	16	2	11%
TOTAL	2893	1336	1557	54%

(1) The case fatality rate is the percentage of AIDS cases diagnosed in a year which are deceased.

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CUMULATIVE AIDS STATISTICS FOR KENTUCKY AND THE UNITED STATES

KENTUCKY AIDS CASES REPORTED AS OF 3/31/99		
Characteristics	Total	%
GENDER		
Male	2,538	88%
Female	355	12%
Unknown	0	0%
TOTAL	2,893	100%
AGE AT DIAGNOSIS		
<13	23	1%
13-19	23	1%
20-29	569	20%
30-39	1,381	48%
40-49	666	23%
>49	231	8%
Unknown	0	0%
TOTAL	2,893	100%
RACE		
White	2,055	71%
African-American	785	27%
Other	53	2%
Undetermined	0	0%
TOTAL	2,893	100%
RISK		
MSM ⁽¹⁾	1,722	60%
IDU ⁽²⁾	377	13%
MSM AND IDU	177	6%
Hemophiliac	79	3%
Heterosexual	321	11%
Transfusion	42	1%
Perinatal	18	1%
Undetermined	157	5%
TOTAL	2,893	100%

(1)MSM = Men Having Sex with Men

(2) IDU = Injection Drug User

U.S. AIDS CASES* REPORTED AS OF 6/30/98		
Characteristics	Total	%
GENDER		
Male	557,324	84%
Female	108,032	16%
Unknown	1	0%
TOTAL	665,357	100%
AGE AT DIAGNOSIS		
<13	8,280	1%
13-19	3,302	0%
20-29	114,627	17%
30-39	300,472	45%
40-49	169,418	25%
>49	69,257	10%
Unknown	1	0%
TOTAL	665,357	100%
RACE		
White	296,435	45%
African-American	240,927	36%
Other	127,118	19%
Undetermined	877	0%
TOTAL	665,357	100%
RISK		
MSM ⁽¹⁾	317,862	48%
IDU ⁽²⁾	168,008	25%
MSM AND IDU	42,093	6%
Hemophiliac	5,015	1%
Heterosexual	62,599	9%
Transfusion	8,686	1%
Perinatal	7,512	1%
Undetermined	53,582	8%
TOTAL	665,357	100%

*U.S. Cases from Centers for Disease Control and Prevention. *HIV/AIDS Surveillance Report*, 1998;10 (no. 1).

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AIDS CASES AND RATES BY YEAR OF DIAGNOSIS AND AREA DEVELOPMENT DISTRICT OF RESIDENCE AT TIME OF DIAGNOSIS												
DISTRICT	CASES & RATES ⁽¹⁾	<1992	1992	1993	1994	1995	1996	1997	1998 ⁽²⁾	1999	TOTAL CASES ⁽³⁾	%
1. Purchase	Cases	32	10	16	10	8	10	5	10	0	101	3%
	Rate per 100,000		5.5	8.6	5.4	4.3	5.3	2.6	5.3			
2. Pennyriple	Cases	48	13	12	9	16	14	9	9	1	131	5%
	Rate per 100,000		6.3	5.8	4.4	7.7	6.8	4.2	4.2			
3. Green River	Cases	26	14	10	6	12	9	7	8	0	92	3%
	Rate per 100,000		7.0	4.9	2.9	5.9	4.4	3.4	3.9			
4. Barren River	Cases	38	14	8	8	10	12	6	5	0	101	3%
	Rate per 100,000		6.2	3.5	3.4	4.2	5.0	2.5	2.1			
5. Lincoln Trail	Cases	21	6	8	12	8	9	13	6	0	83	3%
	Rate per 100,000		2.8	3.6	5.3	3.5	3.9	5.5	2.6			
6. North Central	Cases	373	125	140	149	149	152	126	91	10	1315	45%
	Rate per 100,000		15.4	17.1	18.1	18.0	18.3	15.1	10.9			
7. Northern Kentucky	Cases	95	32	45	26	21	20	17	9	0	265	9%
	Rate per 100,000		9.3	12.8	7.3	5.8	5.5	4.6	2.4			
8. Buffalo Trace	Cases	6	1	0	3	1	2	4	5	0	22	1%
	Rate per 100,000		1.9	0.0	5.6	1.8	3.7	7.4	9.2			
9. Gateway	Cases	4	4	5	5	2	4	2	1	0	27	1%
	Rate per 100,000		5.8	7.2	7.1	2.8	5.6	2.8	1.4			
10. FIVCO	Cases	18	9	5	5	7	6	3	7	0	60	2%
	Rate per 100,000		6.7	3.7	3.7	5.2	4.4	2.2	5.2			
11. Big Sandy	Cases	13	3	1	2	5	2	5	2	1	34	1%
	Rate per 100,000		1.8	0.6	1.2	3.0	1.2	3.0	1.2			
12. Kentucky River	Cases	8	3	1	4	4	1	2	2	0	25	1%
	Rate per 100,000		2.4	0.8	3.2	3.2	0.8	1.6	1.6			
13. Cumberland Valley	Cases	15	5	4	5	10	9	5	7	0	60	2%
	Rate per 100,000		2.2	1.7	2.2	4.3	3.9	2.1	3.0			
14. Lake Cumberland	Cases	9	2	5	5	9	5	2	4	0	41	1%
	Rate per 100,000		1.1	2.8	2.7	4.8	2.7	1.1	2.1			
15. Bluegrass	Cases	167	49	47	65	64	58	49	31	6	536	19%
	Rate per 100,000		8.0	7.6	10.4	10.1	9.1	7.6	4.8			
TOTAL CASES		873	290	307	314	326	313	255	197	18	2893	100%

(1) Rates are only listed for years of diagnosis 1992 - 1998. The rate for 1999 is not given due to incomplete data.

(2) Population statistics for 1997 were used to calculate the rate for 1998.

(3) Total AIDS Cases both Living and Deceased.

Counties In Each Area Development District
1. Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, McCracken, Marshall
2. Caldwell, Christian, Crittenden, Hopkins, Livingston, Lyon, Muhlenberg, Todd, Trigg
3. Daviess, Hancock, Henderson, McLean, Ohio, Union, Webster
4. Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, Warren
5. Breckinridge, Grayson, Hardin, Larue, Marion, Meade, Nelson, Washington
6. Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer, Trimble
7. Boone, Campbell, Carroll, Gallatin, Grant, Kenton, Owen, Pendleton
8. Bracken, Fleming, Lewis, Mason, Robertson
9. Bath, Menifee, Montgomery, Morgan, Rowan
10. Boyd, Carter, Elliott, Greenup, Lawrence
11. Floyd, Johnson, Magoffin, Martin, Pike
12. Breathitt, Knott, Lee, Leslie, Letcher, Owsley, Perry, Wolfe
13. Bell, Clay, Harlan, Jackson, Knox, Laurel, Rockcastle, Whitley
14. Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, Wayne
15. Anderson, Bourbon, Boyle, Clark, Estill, Fayette, Franklin, Garrard, Harrison
Jessamine, Lincoln, Madison, Mercer, Nicholas, Powell, Scott, Woodford

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